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NAT'L MARINE FISHERIES SERVICE
MAY 31 8 08 AM '74
HONOLULU LABORATORY

CURRENT FISHERIES STATISTICS NO. 6402

Industrial Fishery Products, 1973

ANNUAL SUMMARY (Preliminary)

Washington, D.C.
April 3, 1974

U.S. DEPARTMENT OF COMMERCE / National Oceanic and Atmospheric Administration
National Marine Fisheries Service

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Source of data:--Since 1921, the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration and its predecessor organizations have made annual surveys for statistics on the domestic production of industrial fishery products. The data collected include statistics on the production and value of each commodity. The value shown for the products constitutes the gross amount received by the producer at the production point; no deductions are made for commission or expenses.

REVIEW

The value of the 1973 production of industrial fishery products in the United States, American Samoa, and Puerto Rico was a record $201.1 million–an increase of $45.1 million over 1972. The increase in total value was due largely to the record high prices received for industrial fishery products in 1973.

Marine animal scrap and meal. The 1973 production of 287,771 tons was 2,265 tons more than in 1972, but still below the record 312,259 tons produced in 1962. Menhaden meal (188,786 tons) accounted for 65.6 percent of the total meal production. Landings of menhaden used for reduction (1.8 billion pounds) were slightly lower in both the Gulf and Atlantic coast areas. About 60 percent or 1,072.3 million pounds was landed at Gulf ports, and 750.0 million pounds were landed at Atlantic coast ports. Fewer vessels fished in the Gulf area in 1973 than the year before, and the season was shorter–beginning later and ending earlier.

The United States imported only 68,496 tons of fish meal compared with 391,955 tons in 1972. Imports from Peru were only 41,759 tons in 1973–compared with 352,253 tons in 1972, the principal reason for the decline.

Supplies of fish meal available in the United States during 1973 totaled 319,535 tons, less than one-half the 667,110 tons available in 1972. On July 5, 1973, the U.S. Secretary of Commerce announced that 41 categories of agricultural commodities, including fish meal, were subject to export controls. In previous years, exports of fish meal from the United States had been negligible, but in 1973 they reached 36,732 tons. In 1972, only 10,351 tons were exported from the United States.

Marine animal oil. The domestic industry produced 224.6 million pounds of fish oil during 1973–compared with 188.4 million in 1972. Most of this increase came from menhaden. Production of menhaden oil was 200.5 million pounds–compared with 167.0 million in 1972. U.S. exports of fish oil were the highest in 10 years, reaching 247.8 million pounds–compared with 193.2 million in 1972. Exports were only about 14 million pounds less than the record high in 1963. The shortage of Peruvian fish oil in the world market was the chief reason for the increased United States exports.

Fish solubles. Production of fish solubles has increased in the United States during recent years. The 137,435 tons produced in 1973 were the highest since 1959. Menhaden accounted for 76 percent of the total 1973 production.

Other industrial products. Oyster shell products were valued at $4.0 million in 1973– compared with $4.2 million in 1972. Other industrial items included agar-agar, animal feeds, crab and clam shells processed for serving food, fish feed pellets, Irish moss extracts, kelp products, leather products, liquid fertilizer, mussel shell novelties, and pearl essence. These items were valued at $37.7 million in 1973–compared with $84.6 million in 1972. This decrease can be attributed mainly to the smaller production of seaweed products.

SUMMARY OF PRODUCTION, BY PRODUCTS, 1973

PRODUCT	PLANTS	UNIT OF QUANTITY	QUANTITY	VALUE
	NUMBER			DOLLARS
MARINE ANIMAL SCRAP AND MEAL	90	TONS	287,771	121,567,794
MARINE ANIMAL BODY OILS	50	THOUSAND POUNDS	224,636	24,719,200
FISH SOLUBLES	21	TONS	137,435	13,114,925
OYSTER SHELL GRIT AND LIME ("LIVE AND REEF SHELLS")	6	TONS	207,922	4,014,884
MISCELLANEOUS INDUSTRIAL PRODUCTS	32	-	-	37,687,757
TOTAL	1/112	-	-	201,104,560

1/ EXCLUSIVE OF DUPLICATION.

VALUE OF PRODUCTION, BY STATES, 1973

STATE	DOLLARS
MAINE	20,360,535
MASSACHUSETTS AND PENNSYLVANIA	4,493,612
NEW JERSEY	6,754,500
MARYLAND	1,395,535
VIRGINIA	30,217,996
NORTH CAROLINA	5,140,718
FLORIDA	984,567
LOUISIANA	62,523,723
MISSISSIPPI	14,595,950
GEORGIA, ALABAMA, AND TEXAS	2,903,912
IOWA, MICHIGAN, AND WISCONSIN	753,554
ALASKA	4,000
CALIFORNIA	41,152,776
OREGON	1,256,096
WASHINGTON	3,274,678
AMERICAN SAMOA AND PUERTO RICO	5,292,408
TOTAL	201,104,560

PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1973

AREA AND STATE	PLANTS
	NUMBER
NEW ENGLAND:	
MAINE	8
MASSACHUSETTS	2
TOTAL	10
MIDDLE ATLANTIC:	
NEW JERSEY	4
PENNSYLVANIA	1
TOTAL	5
CHESAPEAKE:	
MARYLAND	4
VIRGINIA	8
TOTAL	12
SOUTH ATLANTIC AND GULF:	
NORTH CAROLINA	13
GEORGIA	1
FLORIDA	5
ALABAMA	1
(CONTINUED)	

AREA AND STATE	PLANTS
	NUMBER
SOUTH ATLANTIC AND GULF (CONTINUED):	
MISSISSIPPI	4
LOUISIANA	22
TEXAS	1
TOTAL	47
GREAT LAKES:	
MICHIGAN	1
WISCONSIN	1
TOTAL	2
MISSISSIPPI RIVER, IOWA	2
PACIFIC COAST:	
ALASKA	1
WASHINGTON	8
OREGON	4
CALIFORNIA	15
TOTAL	28
AMERICAN SAMOA	2
PUERTO RICO	4
GRAND TOTAL	112

PRODUCTION OF MARINE ANIMAL SCRAP AND MEAL, 1973

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND TERRITORIES		TOTAL	
	TONS	DOLLARS	TONS	DOLLARS	TONS	DOLLARS
DRIED SCRAP AND MEAL:						
FISH:						
ANCHOVY	-	-	22,039	8,878,630	22,039	8,878,630
HERRING, SEA.	1/ 4,400	1/ 1,953,612	-	-	4,400	1,953,612
MENHADEN.	188,786	86,432,910	-	-	188,786	86,432,910
TUNA AND MACKEREL	-	-	2/43,961	2/13,372,098	43,961	13,372,098
UNCLASSIFIED.	3/20,176	3/10,097,966	-	-	20,176	10,097,966
TOTAL	213,362	98,484,488	66,000	22,250,728	279,362	120,735,216
SHELLFISH:						
CRAB.	1/8,019	801,659	-	-	8,019	801,659
SHRIMP.	1/ 390	30,919	-	-	390	30,919
TOTAL	8,409	832,578	-	-	8,409	832,578
GRAND TOTAL	221,771	99,317,066	66,000	22,250,728	287,771	121,567,794

1/ INCLUDES PRODUCTION ON THE PACIFIC COAST. 2/ INCLUDES PRODUCTION ON THE ATLANTIC COAST.
3/ INCLUDES PRODUCTION IN THE GREAT LAKES AND MISSISSIPPI RIVER AREAS AND UNCLASSIFIED FISH MEAL PRODUCED ON THE PACIFIC COAST.

PRODUCTION OF MARINE ANIMAL OIL, 1973

PRODUCT	ATLANTIC AND GULF COASTS		PACIFIC COAST AND PUERTO RICO		TOTAL	
	THOUSAND POUNDS	DOLLARS	THOUSAND POUNDS	DOLLARS	THOUSAND POUNDS	DOLLARS
BODY OIL:						
ANCHOVY	-	-	10,549	1,179,910	10,549	1,179,910
HERRING, SEA.	1/ 1,724	1/238,257	-	-	1,724	238,257
MENHADEN.	200,489	22,248,456	-	-	200,489	22,248,456
TUNA AND MACKEREL	-	-	7,398	487,620	7,398	487,620
UNCLASSIFIED.	2/ 4,036	2/497,652	440	67,305	4,476	564,957
TOTAL	206,249	22,984,365	18,387	1,734,835	224,636	24,719,200

1/ INCLUDES PRODUCTION ON THE PACIFIC COAST. 2/ INCLUDES PRODUCTION IN THE GREAT LAKES, AND MISSISSIPPI RIVER AREAS, AND UNCLASSIFIED LIVER OILS.

NOTE:--TO CONVERT POUNDS OF OIL TO GALLONS DIVIDE BY 7.75.

PRODUCTION OF FISH SOLUBLES, 1973

PRODUCT, STATE, AND NUMBER OF PLANTS	TONS	DOLLARS
FISH SOLUBLES:		
MASSACHUSETTS (1), NEW JERSEY (1), VIRGINIA (2), AND FLORIDA (1).	45,746	3,340,937
NORTH CAROLINA (3) AND CALIFORNIA (3)	37,162	2,762,674
MISSISSIPPI (2) AND LOUISIANA (8)	54,527	7,011,314
TOTAL (21).	137,435	13,114,925

NOTE:--INCLUDES MENHADEN SOLUBLES.

PRODUCTION OF MENHADEN PRODUCTS, 1973

STATE AND NUMBER OF PLANTS	DRIED SCRAP AND MEAL		OIL		SOLUBLES		TOTAL
	TONS	DOLLARS	POUNDS	DOLLARS	TONS	DOLLARS	DOLLARS
MASSACHUSETTS (1), NEW JERSEY (1), VIRGINIA (2), AND FLORIDA (1).	73,670	31,311,308	37,811,080	4,325,833	43,934	3,172,767	38,809,908
NORTH CAROLINA (4).	7,446	3,096,861	3,887,749	493,043	5,905	606,632	4,196,536
LOUISIANA (8) AND MISSISSIPPI (2).	107,670	52,024,741	158,790,114	17,429,580	54,527	7,011,314	76,465,635
TOTAL (19).	188,786	86,432,910	200,488,943	22,248,456	104,366	10,790,713	119,472,079

NOTE:--MAY INCLUDE A SMALL QUANTITY OF OTHER SPECIES.

PRODUCTION OF OYSTERS SHELL PRODUCTS, 1973

("LIVE AND REEF SHELLS")

STATE AND NUMBER OF PLANTS	POULTRY GRIT		LIME, BURNED AND UNBURNED		TOTAL	
	TONS	DOLLARS	TONS	DOLLARS	TONS	DOLLARS
ALABAMA (1), MARYLAND (1), OREGON (1), PENNSYLVANIA (1), TEXAS (1) AND VIRGINIA (1).	192,235	3,799,660	15,687	215,389	207,922	4,015,049

PRODUCTION OF MISCELLANEOUS INDUSTRIAL FISHERY PRODUCTS, 1973

PRODUCT	STATE AND NUMBER OF PLANTS	DOLLARS
AGAR-AGAR	CALIFORNIA (1)	
ANIMAL FEEDS AND FISH FEED PELLETS. . . .	CALIFORNIA (2), MICHIGAN (1), OREGON (3), VIRGINIA (1), AND WASHINGTON (7)	
CLAM AND CRAB SHELLS (PROCESSED FOR FOOD SERVING).	MISSISSIPPI (1) AND NORTH CAROLINA (1)	37,687,757
IRISH MOSS EXTRACTS	MAINE (2)	
KELP PRODUCTS	CALIFORNIA (2)	
LEATHER PRODUCTS.	FLORIDA (2) AND NEW JERSEY (1)	
LIQUID FERTILIZER	CALIFORNIA (1) AND OREGON (1)	
MARINE PEARL SHELL BUTTONS.	NEW JERSEY (2)	
MUSSEL SHELL GRIT	IOWA (1)	
MUSSEL SHELL NOVELTIES.	IOWA (1)	
PEARL ESSENCE	MAINE (3)	

NUMBER OF PLANTS PRODUCING INDUSTRIAL FISHERY PRODUCTS, 1973

PRODUCTS	ATLANTIC AND GULF COASTS 1/	PACIFIC COAST 2/	TOTAL
	NUMBER		
SCRAP AND MEAL, DRIED:			
ALEWIFE	3	-	3
ANCHOVY	-	6	6
CARP	1	-	1
CRAB	11	2	13
GROUNDFISH	1	-	1
HAKE	-	1	1
HERRING:			
SEA	2	2	4
THREAD	2	-	2
MENHADEN	19	-	19
SALMON	-	1	1
SHRIMP	14	1	15
TUNA AND MACKEREL	1	12	13
UNCLASSIFIED	10	1	11
OIL:			
BODY:			
ALEWIFE	3	-	3
ANCHOVY	-	6	6
CARP	1	-	1
HAKE	-	1	1
HERRING:			
SEA	2	1	3
THREAD	2	-	2
MENHADEN	19	-	19
SALMON	-	2	2
TUNA AND MACKEREL	-	7	7
LIVER	1	-	1
UNCLASSIFIED	5	1	6
SHELL PRODUCTS:			
CLAM SHELLS PROCESSED FOR FOOD SERVING	1	-	1
CRAB SHELLS PROCESSED FOR FOOD SERVING	1	-	1
MARINE PEARL SHELL BUTTONS	2	-	2
MUSSEL SHELL GRIT	1	-	1
MUSSEL SHELL NOVELTIES	1	-	1
OYSTER SHELL:			
CRUSHED SHELL FOR POULTRY FEED	4	1	5
SHELL LIME (BURNED AND UNBURNED)	2	1	3
SEAWEED PRODUCTS:			
AGAR-AGAR	-	1	1
IRISH MOSS EXTRACTS	2	-	2
KELP PRODUCTS	-	2	2
MISCELLANEOUS:			
ANIMAL FEEDS	2	12	14
FISH FEED PELLETS	-	1	1
FISH SOLUBLES	18	3	21
LEATHER PRODUCTS	3	-	3
LIQUID FERTILIZER	-	2	2
PEARL ESSENCE	3	-	3
TOTAL, EXCLUSIVE OF DUPLICATION	74	38	112

1/ INCLUDES FIRMS IN THE GREAT LAKES AND MISSISSIPPI RIVER AREAS.
2/ INCLUDES PUERTO RICO AND AMERICAN SAMOA.

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1955-73

Year	Menhaden, dried scrap and meal		Herring meal		Tuna and mackerel meal	
	Tons	Dollars	Tons	Dollars	Tons	Dollars
1955	190,628	25,457,512	7,671	1,163,464	23,396	3,120,302
1956	210,582	27,439,634	11,298	1,562,622	26,266	3,355,069
1957	172,388	21,725,888	13,891	1,861,961	25,716	3,037,436
1958	158,074	20,698,929	10,277	1,457,982	25,311	3,185,772
1959	223,893	26,391,987	11,963	1,589,237	25,380	2,847,204
1960	218,423	19,201,716	9,151	834,426	26,499	2,318,877
1961	247,551	25,852,498	5,268	619,934	21,243	2,056,426
1962	239,707	28,249,566	5,095	688,984	26,559	2,578,761
1963	184,205	22,263,320	7,537	856,432	26,957	2,943,109
1964	160,349	20,001,220	8,881	1,102,522	21,113	2,229,443
1965	175,959	25,869,014	12,932	2,005,617	25,399	3,032,063
1966	134,954	20,539,455	11,860	1,971,118	25,290	3,199,211
1967	119,135	15,265,369	9,492	1,328,183	25,487	2,757,513
1968	143,154	19,534,274	15,411	2,127,988	28,781	2,955,047
1969	159,493	26,960,278	6,563	1,044,801	26,870	3,238,956
1970	188,550	34,657,788	6,415	1,174,696	26,674	3,753,067
1971	220,996	34,952,755	5,189	859,970	29,287	3,705,977
1972	193,580	35,293,566	5,487	1,162,094	43,226	5,483,877
1973	188,786	86,432,910	4,400	1,953,612	43,961	13,372,098

Year	Other, dried scrap and meal		Total, scrap and meal		Fish solubles and homogenized condensed fish 1/	
	Tons	Dollars	Tons	Dollars	Tons	Dollars
1955	42,807	5,008,190	264,502	34,749,468	110,919	8,354,492
1956	47,647	5,529,566	295,793	37,886,891	128,829	9,989,083
1957	52,090	5,966,470	264,085	32,591,755	122,273	10,218,269
1958	54,478	6,415,896	248,140	31,758,579	130,177	11,518,710
1959	45,315	5,097,437	306,551	35,925,865	165,359	10,043,051
1960	36,064	2,926,569	290,137	25,281,588	98,929	4,020,992
1961	37,203	3,410,978	311,265	31,939,836	112,254	5,468,643
1962	40,898	4,055,919	312,259	35,573,230	124,649	6,634,748
1963	37,208	4,172,288	255,907	30,235,149	107,402	6,753,065
1964	44,909	4,705,673	235,252	28,038,858	93,236	5,862,194
1965	39,761	4,800,367	254,051	35,707,061	94,850	5,939,073
1966	51,717	6,566,004	223,821	32,275,788	83,441	5,160,371
1967	57,075	6,687,219	211,189	26,038,284	74,675	4,587,708
1968	47,790	5,644,019	235,136	30,261,328	71,833	3,706,548
1969	59,738	8,578,733	252,664	39,822,768	81,692	4,123,126
1970	47,568	6,767,716	269,197	46,353,267	94,968	4,946,385
1971	37,340	4,981,925	292,812	44,500,627	111,188	5,045,989
1972	43,213	6,349,200	285,506	48,288,737	134,395	5,727,598
1973	50,624	19,809,174	287,771	121,567,794	137,435	13,114,925

Year	Menhaden oil		Herring oil		Tuna and mackerel oil	
	Thousand Pounds	Dollars	Thousand Pounds	Dollars	Thousand Pounds	Dollars
1955	159,241	12,195,454	8,183	668,681	4,087	264,225
1956	168,211	14,092,275	13,681	1,141,911	5,290	359,144
1957	118,484	9,466,198	14,106	1,138,978	5,537	397,334
1958	127,986	9,434,108	13,203	882,119	4,704	319,183
1959	154,712	10,743,781	15,004	988,994	4,508	190,938
1960	183,403	11,582,027	11,499	668,295	3,819	175,047
1961	235,167	12,913,447	6,135	416,710	5,719	278,160
1962	232,619	10,059,839	5,086	237,897	5,008	235,528
1963	167,635	9,853,302	5,709	292,966	5,903	273,901
1964	157,730	11,734,935	10,354	785,155	4,816	272,178
1965	175,204	13,240,988	8,528	748,336	4,794	333,776
1966	144,198	10,981,557	7,882	585,464	4,111	303,320
1967	101,384	4,736,298	5,676	306,835	5,218	267,634
1968	152,020	6,247,396	9,533	376,018	4,549	162,741
1969	149,155	8,252,716	3,484	217,339	4,256	132,172
1970	186,283	16,833,277	5,437	328,407	3,534	168,055
1971	244,040	19,248,564	5,856	488,388	4,933	255,233
1972	166,956	11,563,486	5,064	480,625	5,030	272,114
1973	200,489	22,248,456	1,724	238,257	7,398	487,620

See footnotes at end of table.

(Continued on next page)

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
Washington, D.C. 20235

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
COM-210

U.S.MAIL

PRODUCTION OF INDUSTRIAL FISHERY PRODUCTS, 1955-73 - Continued

Year	Whale and sperm oil		Other marine animal oil		Total oil	
	Thousand Pounds	Dollars	Thousand Pounds	Dollars	Thousand Pounds	Dollars
1955 . . .	–	–	15,223	1,740,254	186,734	14,868,614
1956 . . .	2,089	172,703	12,229	1,485,639	201,500	17,251,672
1957 . . .	3,276	214,152	11,212	1,402,567	152,615	12,619,229
1958 . . .	3,193	219,253	16,124	1,478,527	165,210	12,333,190
1959 . . .	3,910	264,906	9,200	903,357	187,334	13,091,976
1960 . . .	3,279	174,569	7,143	786,534	209,143	13,386,472
1961 . . .	3,470	242,339	7,627	522,230	258,118	14,372,886
1962 . . .	2,567	177,650	4,795	290,494	250,075	11,001,408
1963 . . .	2,129	148,416	4,451	284,867	185,827	10,853,452
1964 . . .	3,160	195,610	4,138	309,113	180,198	13,296,991
1965 . . .	2,667	169,142	4,247	359,952	195,440	14,852,194
1966 . . .	1,365	81,046	6,489	528,301	164,045	12,479,688
1967 . . .	2,483	147,434	7,637	653,468	122,398	6,111,669
1968 . . .	2,394	115,861	5,576	424,675	174,072	7,326,691
1969 . . .	1,736	103,889	11,154	620,277	169,785	9,326,393
1970 . . .	680	46,019	10,150	808,966	206,084	18,184,724
1971 . . .	418	39,588	10,203	798,734	265,450	20,830,507
1972 . . .	–	–	11,395	800,659	188,445	13,116,884
1973 . . .	–	–	15,025	1,744,867	224,636	24,719,200

Year	Oyster and marine clam shell lime and grit		Freshwater mussel shell products	Marine pearl shell buttons	Other industrial products	Grand total
	Tons		Dollars			
1955 . . .	359,565	3,148,658	4,787,020	6,606,363	10,820,787	83,335,402
1956 . . .	386,200	3,943,621	4,441,702	6,127,940	12,095,932	91,736,841
1957 . . .	478,568	5,200,589	3,333,369	5,754,892	11,662,865	81,380,968
1958 . . .	431,171	4,718,786	2,424,569	4,217,522	12,911,693	79,883,049
1959 . . .	399,338	4,937,182	1,221,142	3,166,190	13,830,120	82,215,526
1960 . . .	470,825	6,821,034	2/ 577,221	2,675,928	13,831,917	66,595,152
1961 . . .	442,835	6,341,864	2/ 702,296	2,317,503	13,425,946	74,568,974
1962 . . .	435,656	5,888,713	2/ 763,773	1,904,488	13,911,209	75,677,569
1963 . . .	398,583	5,479,819	2/ 369,020	1,151,549	13,759,174	68,601,228
1964 . . .	362,543	4,914,924	2/ 272,281	1,004,344	16,721,404	69,910,996
1965 . . .	349,528	4,558,346	2/ 116,669	900,600	20,756,230	82,830,173
1966 . . .	334,212	4,315,125	(3)	815,595	17,925,121	72,971,688
1967 . . .	311,367	4,144,107	(3)	788,575	19,356,446	61,026,789
1968 . . .	239,798	3,572,487	(3)	1,078,408	24,181,692	70,127,154
1969 . . .	207,332	3,329,118	(3)	841,000	25,562,406	83,004,811
1970 . . .	204,037	3,409,340	(4)	(4)	26,646,033	99,539,749
1971 . . .	228,605	4,128,422	(4)	(4)	32,045,853	106,551,398
1972 . . .	221,711	4,209,955	(4)	(4)	84,639,221	155,982,395
1973 . . .	207,922	4,014,884	(4)	(4)	37,687,757	201,104,560

1/ Homogenized condensed fish has not been produced since 1963.
2/ Includes the value of pearl novelties.
3/ Included with marine pearl shell buttons.
4/ Included with other industrial products.

AMERICAN REVOLUTION BICENTENNIAL 1776-1976